GL. CUBCLASS



ELECTRONIC DATA STORAGE APPARATUS
WITH KEY MANAGEMENT FUNCTION

KEY MANAGEMENT UNIT

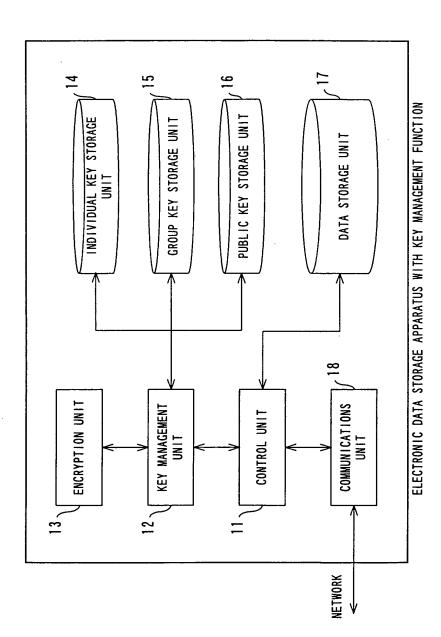
ENCRYPTION UNIT

3

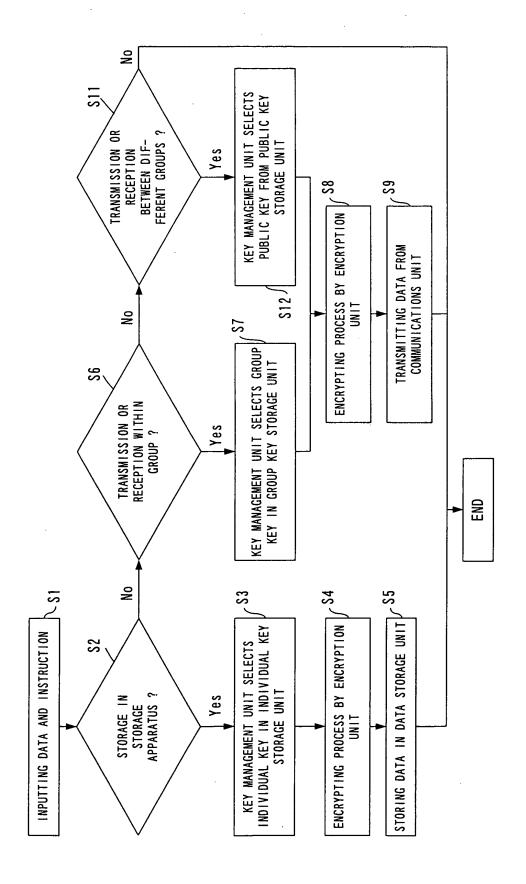
FIG. 1

COBOBO"ZANKEGO

APPROVED	0.G. I	iG.
BY	CLASS	SUBCLASS
DRAFTSMAN		

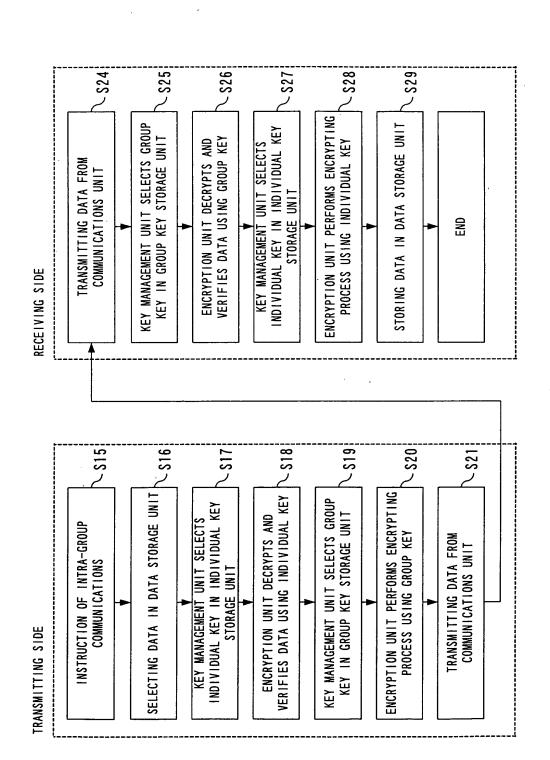


F I G. 2

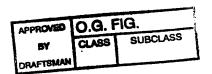


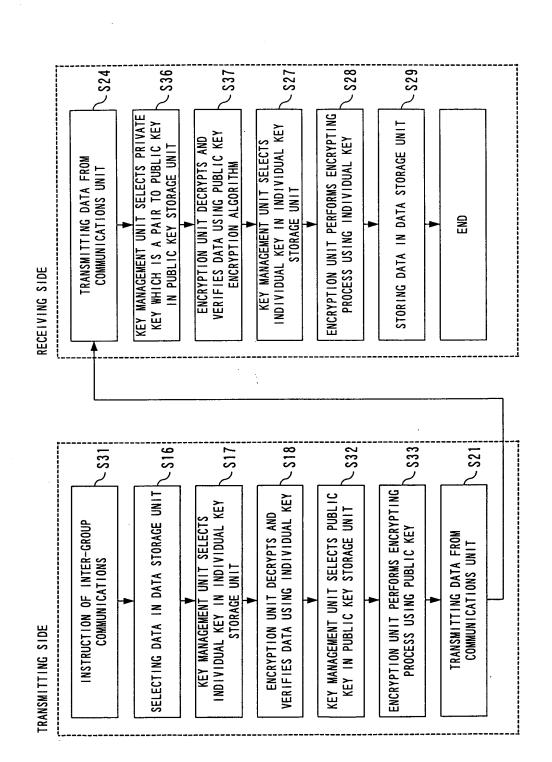
F | G. 3

APPROVED	0.G.	iG.
BY	CLASS	SUBCLASS
DRAFTSMAN		

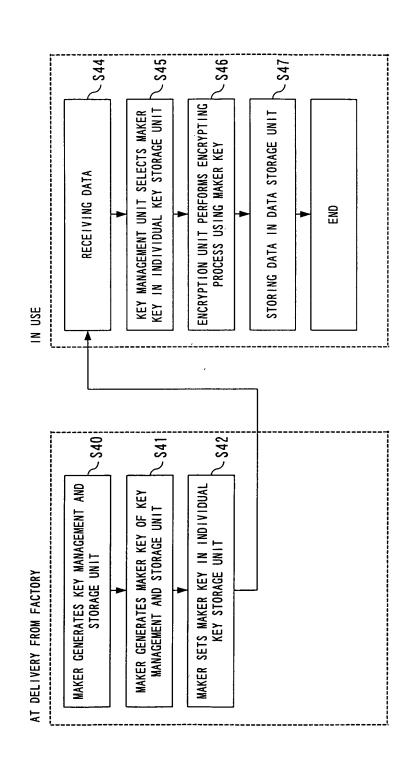


F | G. 4

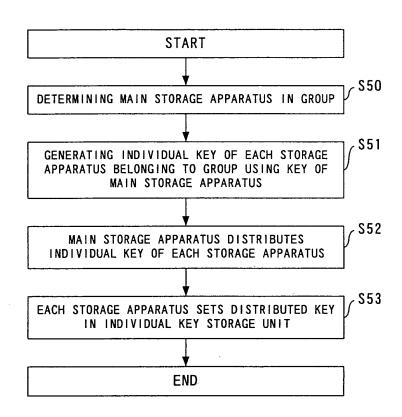




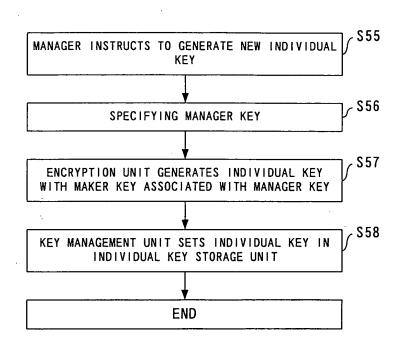
F | G. 5



F | G. 6



F I G. 7



F I G. 8

I	APPROVED	O.G. FIG.	
	BY	CLASS	SUBCLASS
	DRAFTSMAN		

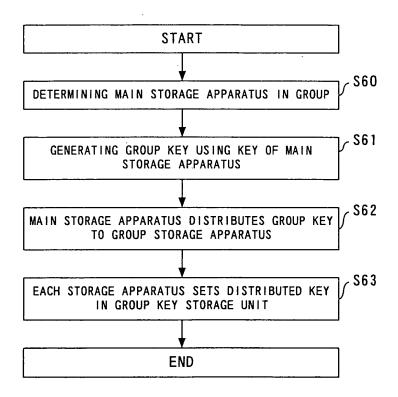


FIG. 9

E	APPROVED	0.G. F	IG.	•
	BY	CLASS	SUBCLASS	١
	DRAFTSMAN	.		

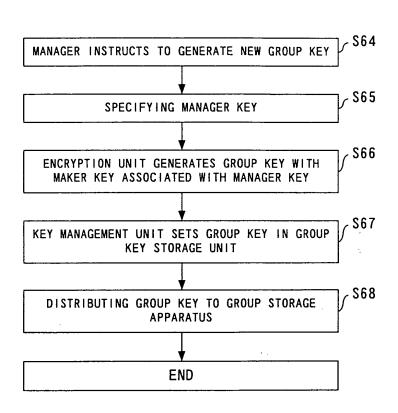
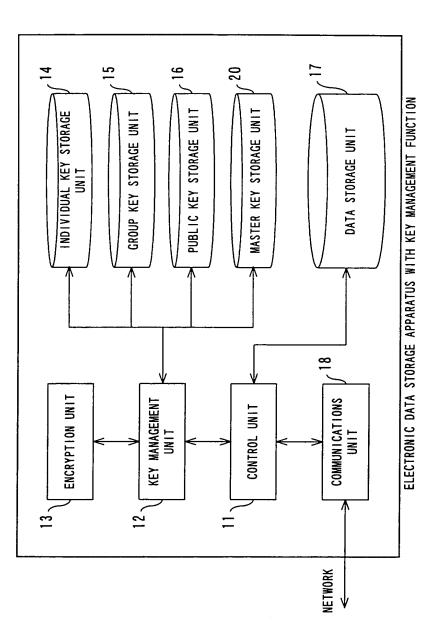


FIG. 10

•	APPROVED	O.G. F	IG.
	BY	CLASS	SUBCLASS
	DRAFTSMAN	\	



F1G. 11

APPROVED	O.G. I	FIG.
BY	CLASS	SUBCLASS
DRAFTSMAN		

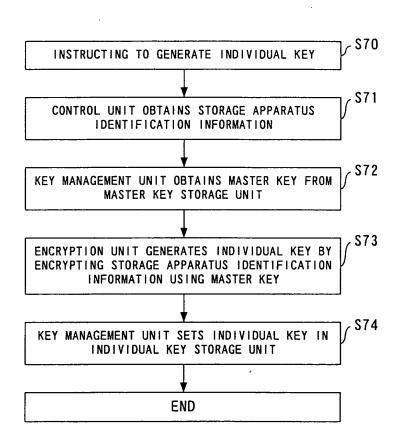


FIG. 12

APPROVED	O.G. FIG.	
BY	CLASS	
DRAFTSMAN		

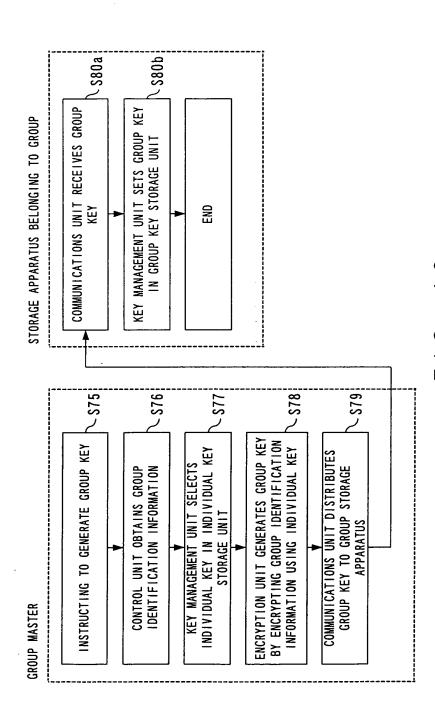


FIG. 13

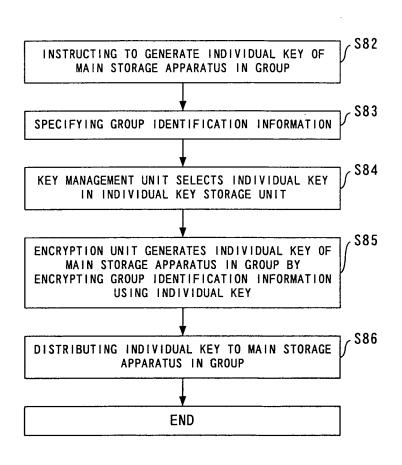


FIG. 14

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

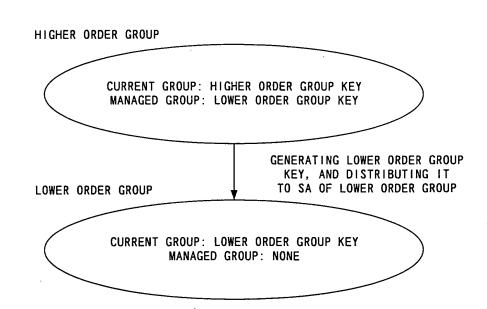


FIG. 15

APPROVED	O.G. F	-IG.
BY	CLASS	SUBCLASS
DRAFTSMAN		

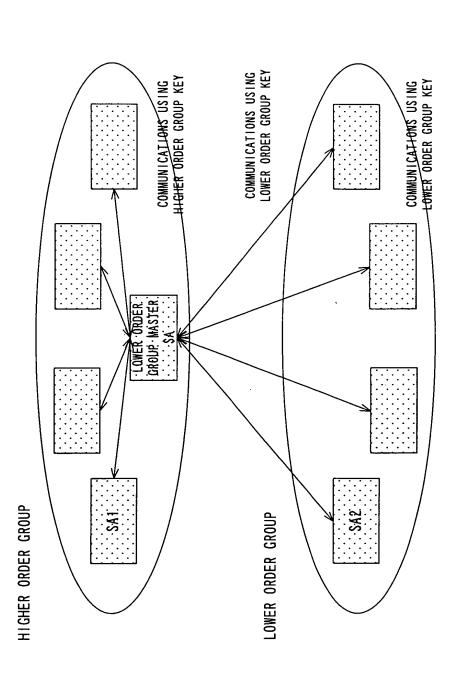
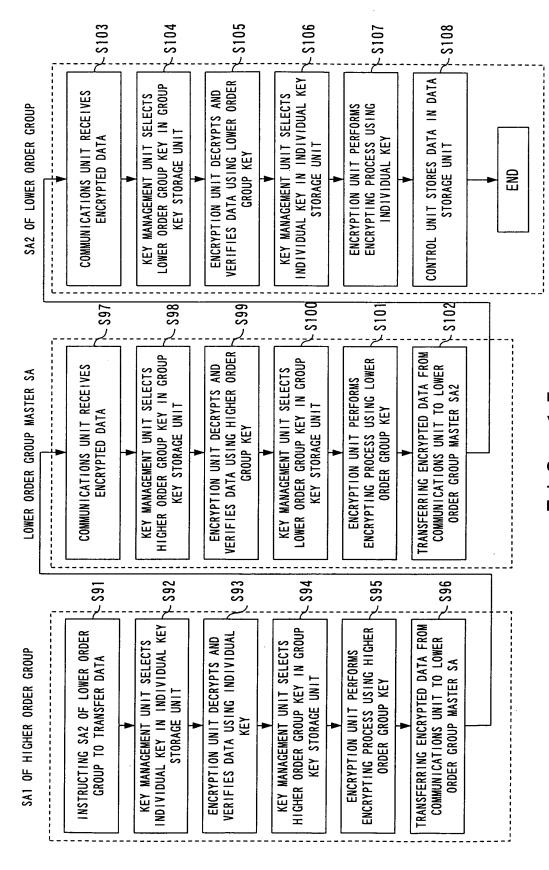


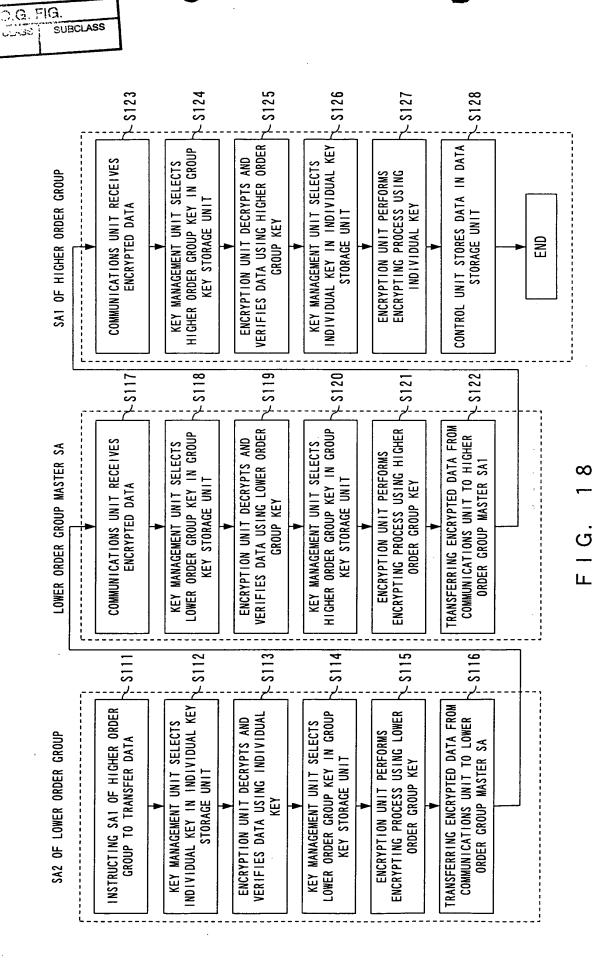
FIG. 16



F - G. 1 ~

APPROVE

BY DRAFTSMAN



STORAGE APPARATUS

• GENERATING MAC (INDIVIDUAL KEY, ELECTRONIC DOCUMENTS)

• STORING MAC (INDIVIDUAL KEY, ELECTRONIC DOCUMENTS) AND ELECTRONIC DOCUMENTS

STORING ELECTRONIC DOCUMENT

ELECTRONIC DOCUMENT F I G. 19

APPROVED	O.G. F	FIG
BY	CLASS	SUBCLASS
DRAFTSMAN		

STORAGE APPARATUS A

VERIFYING ELECTRONIC DOCUMENT USING MAC (INDIVIDUAL KEY, ELECTRONIC DOCUMENT)

COMPUTING MAC (GROUP KEY, ELECTRONIC DOCUMENT)

· STORING MAC (GROUP KEY, ELECTRONIC DOCUMENT) AND ELECTRONIC DOCUMENTS

STORAGE APPARATUS B

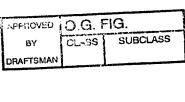
RECEIVING MAC (GROUP KEY, ELECTRONIC DOCUMENT) AND ELECTRONIC DOCUMENTS

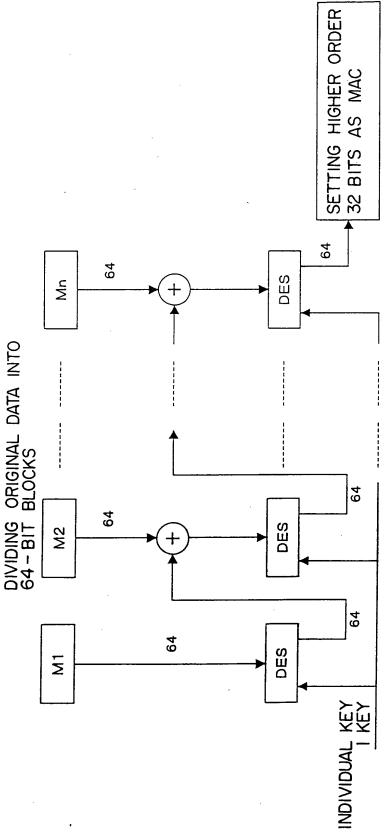
VERIFYING MAC (GROUP KEY, ELECTRONIC DOCUMENT) USING GROUP KEY

COMPUTING MAC (GROUP KEY, ELECTRONIC DOCUMENT)

- STORING MAC (GROUP KEY, ELECTRONIC DOCUMENT) AND ELECTRONIC DOCUMENTS

2 0 Б Б





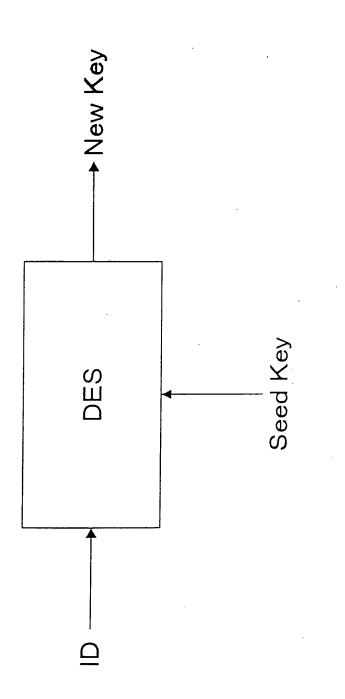
: EXCLUSIVE LOGICAL SUM

| : DES (DATA ENCRYPTION STANDARD) PROCESS

DES

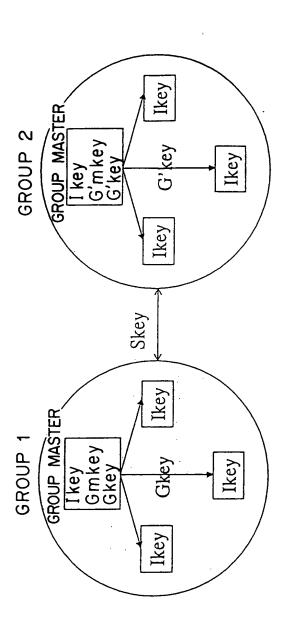
F1G. 21

		10
APPROVED	0.G. F	1G.
BY	CLASS	SUBCLASS
DRAFTSMAN	\	



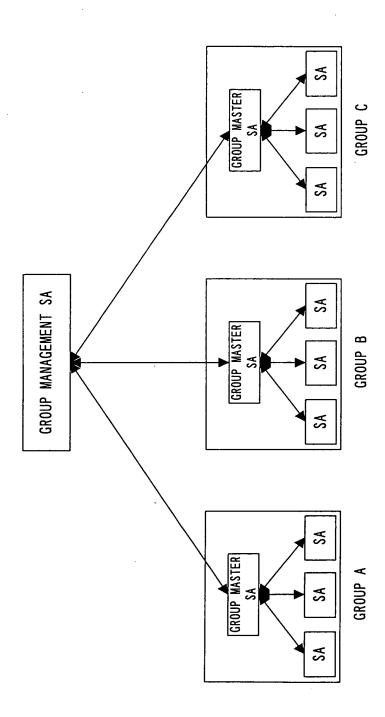
F16. 22

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN	·	



F1G. 23

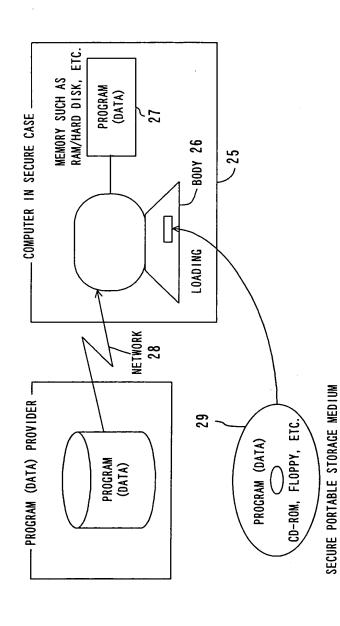
710			
Ţ	APPROVED	O.G. FIG.	
١	ву	CLASS	SUBCLASS
	ORAFTSMAN		



F1G. 24







F1G. 25